

What is claimed is:

1. A snow removal machine comprising:

a power transmission member disposed centrally in a transverse
5 direction of the machine;

left and right auger shafts extending from the power transmission
member transversely leftward and rightward, respectively; and

left and right augers each configured with an outer auger blade, an
intermediate auger blade and an inner auger blade which extend helically and
10 mounted in this order from outside toward the center in the transverse direction
on the left or right auger shaft to collect snow to the center,

wherein the outer auger blade and the inner auger blade are arranged
along a common first helical path, the intermediate auger blade is arranged
along a second helical path substantially 180° out of phase with the first helical
15 path; and left and right driving tines for preventing lifting of the left and right
augers by biting into snow are mounted on the left and right auger shafts.

2. A snow removal machine as set forth in claim 1, wherein the left driving tine
is opposed to the inner auger blade on the right auger shaft so that the left
20 driving tine and the inner auger blade on the right auger shaft catch and carry
rearward a mass of snow together, and the right driving tine is opposed to the
inner auger blade on the left auger shaft so that the right driving tine and the
inner auger blade on the left auger shaft catch and carry rearward a mass of
snow together.

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3. A snow removal machine as set forth in claim 1, wherein the left and right
augers are substantially 180° out of phase with one another.

4. A snow removal machine as set forth in claim 3, further comprising a left attitude stabilizing tine provided in the vicinity of the outer auger blade on the left auger shaft in such a manner as to be in phase with the outer auger blade on the right auger shaft, and a right attitude stabilizing tine provided in the vicinity of the outer auger blade on the right auger shaft in such a manner as to be in phase with the outer auger blade on the left auger shaft.

5. A snow removal machine as set forth in claim 1, further comprising a left snow removing tine provided on the left auger shaft in the vicinity of the power transmission member for removing snow accumulating on a left half of an external wall of the power transmission member, and a right snow removing tine provided on the right auger shaft in the vicinity of the power transmission member for removing snow accumulating on a right half of an external wall of the power transmission member.

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6. A snow removal machine as set forth in claim 5, wherein the left snow removing tine is phase-shifted 180° with respect to the right snow removing tine.